

CD44 Monoclonal Antibody (5F12)

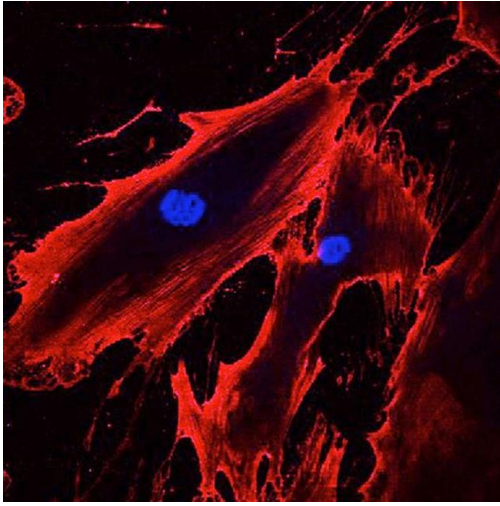
Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	5F12
Conjugate	Unconjugated
Immunogen	EBV transformed normal human B-lymphocytes
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10984604

Applications	Tested Dilution	Publications
Western Blot (WB)	-	3 Publications
Immunocytochemistry (ICC/IF)	10 µg/mL	4 Publications
Flow Cytometry (Flow)	Assay-dependent	7 Publications
Neutralization (Neu)	-	9 Publications
Blocking Assay (BLOCK)	-	1 Publication

Product Specific Information

MA5-12394 has been successfully used in immunofluorescence analysis of CD44 in human bone marrow derived mesenchymal stem cells.

Product Images For CD44 Monoclonal Antibody (5F12)



CD44 Antibody (MA5-12394) in ICC/IF

Immunofluorescent analysis of CD44 (red) in human bone marrow derived mesenchymal stem cells. The cells were fixed with 2% paraformaldehyde, and blocked with 2% normal donkey serum diluted in PBS for 30 minutes at room temperature. Cells were stained with a CD44 monoclonal antibody (Product # MA5-12394) at a dilution of 10 µg/mL in blocking buffer for 1 hour at room temperature, and then incubated with a Goat anti-mouse IgG (H+L) Secondary Antibody, Alexa Fluor® 555 conjugate (Product # A-21422) at a dilution of 1:800 for 1 hour at room temperature (red). Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Note: Data courtesy of Innovators Program.

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Western Blot (3)

Scientific reports

IGFBP-3 Blocks Hyaluronan-CD44 Signaling, Leading to Increased Acetylcholinesterase Levels in A549 Cell Media and Apoptosis in a p53-Dependent Manner.

"MA5-12394 was used in MTT reduction assay to show that IGFBP-3 or its peptide blocks hyaluronan-CD44 signaling via a mechanism that depends on both p53 and acetylcholinesterase."

Authors: Price D, Muterspaugh R, Clegg B, Williams A, Stephens A, Guthrie J, Heyl D, Evans HG

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2020

Oncogene

Serglycin in tumor microenvironment promotes non-small cell lung cancer aggressiveness in a CD44-dependent manner.

"Published figure using CD44 monoclonal antibody (Product # MA5-12394) in Western Blot"

Authors: Guo JY, Hsu HS, Tyan SW, Li FY, Shew JY, Lee WH, Chen JY

Species
Human

Dilution
Not Cited

Year
2017

[View more WB references on thermofisher.com](#)

Immunocytochemistry (4)

Nature communications

Bi-directional cell-pericellular matrix interactions direct stem cell fate.

"MA5-12394 was used for blocking to show that human bone marrow stromal cells encapsulated within hyaluronic acid-based hydrogels modify their surroundings by synthesising, secreting and arranging proteins pericellularly or by degrading the hydrogel."

Authors: Ferreira SA, Motwani MS, Faull PA, Seymour AJ, Yu TTL, Enayati M, Taheem DK, Salzlechner C, Haghighi T, Kania EM, Oommen OP, Ahmed T, Loaiza S, Parzych K, Dazzi F, Varghese OP, Festy F, Grigoriadis AE, Auner HW, Snijders AP, Bozec L, Gentleman E

Species
Human

Dilution
Not Cited

Year
2018

Biomaterials

Neighboring cells override 3D hydrogel matrix cues to drive human MSC quiescence.

"MA5-12394 was used in Inhibition experiments to study the contributions of 3D hydrogel matrix- and non-matrix-mediated cues in directing mesenchymal stem cell response."

Authors: Ferreira SA, Faull PA, Seymour AJ, Yu TTL, Loaiza S, Auner HW, Snijders AP, Gentleman E

Species
Human

Dilution
Not Cited

Year
2018

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More applications with references on thermofisher.com

Flow (7) Neu (9) BLOCK (1)

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